

# Community Water Supply Conditions

Drought Response Task Force Meeting  
August 9, 2012

Richard P. Cobb, P.G., Deputy Manager,  
Division of Public Water Supplies

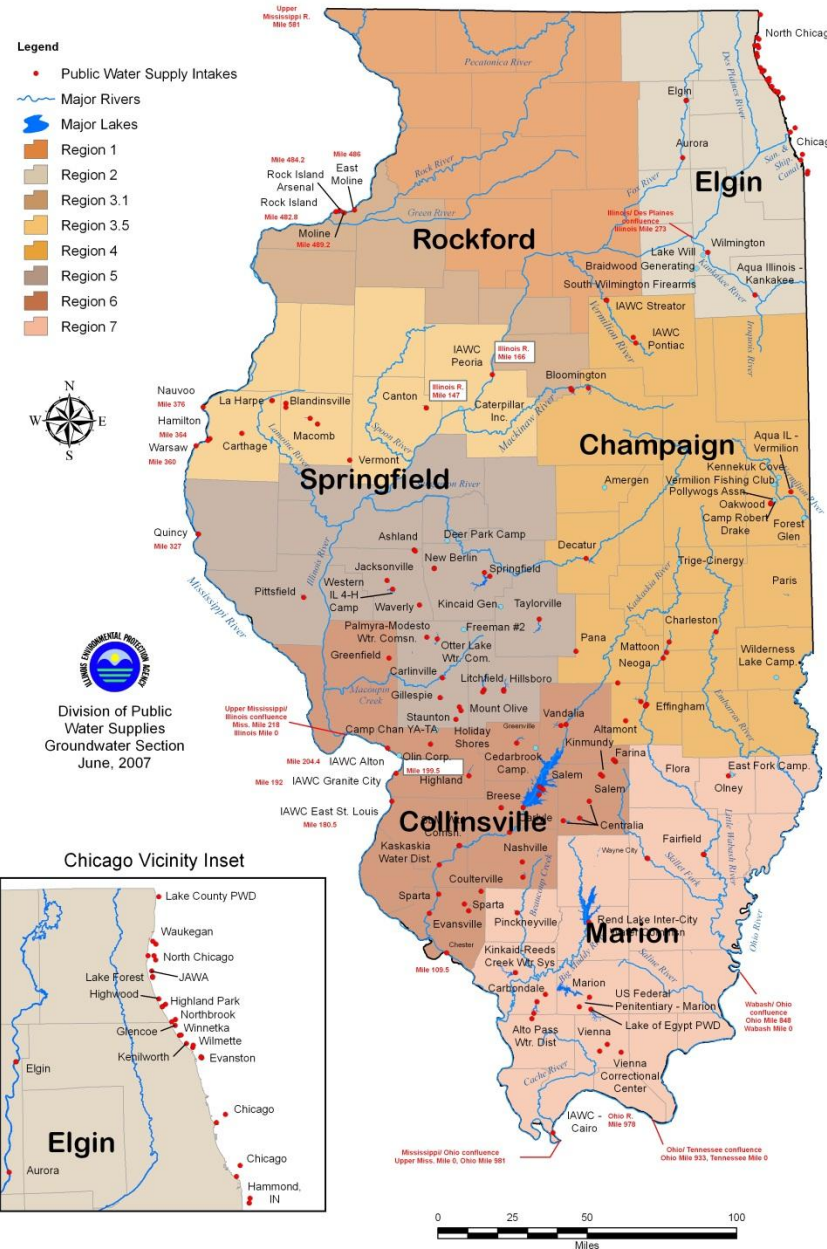


ILLINOIS ENVIRONMENTAL  
PROTECTION AGENCY

# Background

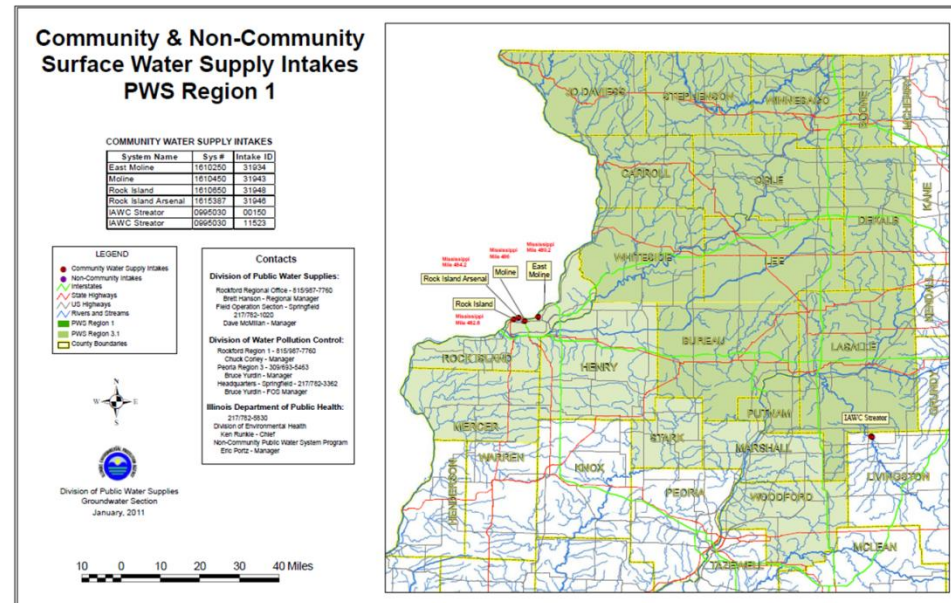
- \* More than 11 million people in Illinois rely on public water supplies (PWS) for drinking water. There 1,800 community water supplies (CWS) and 4,100 non-community water supplies (non-CWS) that supply these 11 million people.
  - \* “Public water system” or “PWS” means a system for the provision to the public of water for human consumption through pipes or other constructed conveyances, if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. A PWS is either a community water system (CWS) or a non-community water system (non-CWS).
  - \* “Community water supply” means a public water supply which serves or is intended to serve at least 15 service connections used by residents or regularly serves at least 25 residents.
  - \* “Non-community water system” or “NCWS” or “non-CWS” means a public water system (PWS) that is not a community water system (CWS). A non-community water system is either a “transient non-community water system (TWS)” or a “non-transient non-community water system (NTNCWS).”

# Public Surface Water Supply Intakes with PWS Regions



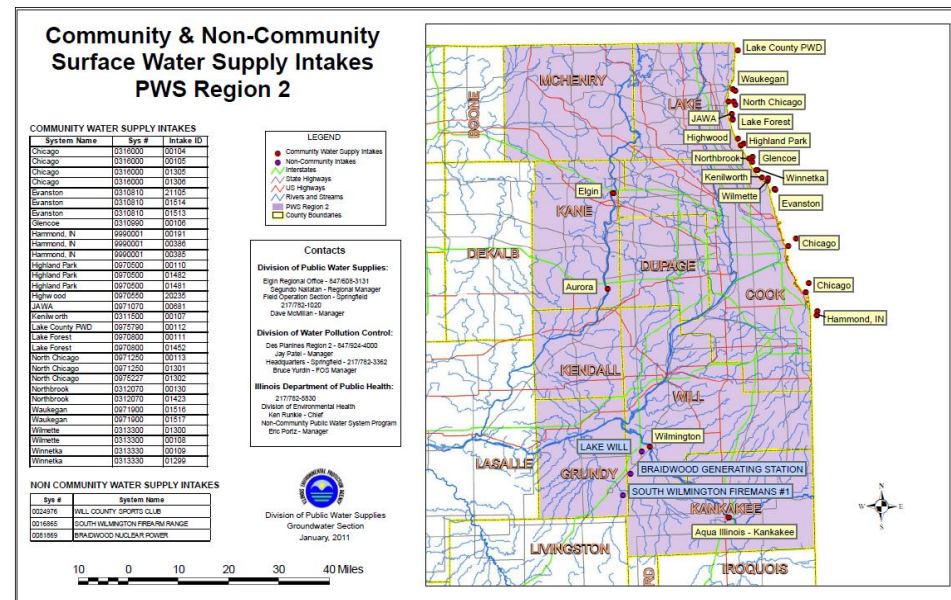
# Illinois EPA - Region 1

- \* **Illinois American Water Company (IAWC) Streator** the Vermillion River flow over their dam stopped the morning of August 7, 2012. They are taking water from the pool above the dam, and still have a full 90 day supply in their reservoir.
- \* **Pontiac's** community water system is also withdrawing from the Vermillion River, and is having problems with taste and odor due to the low flow.



# Illinois EPA Region 2

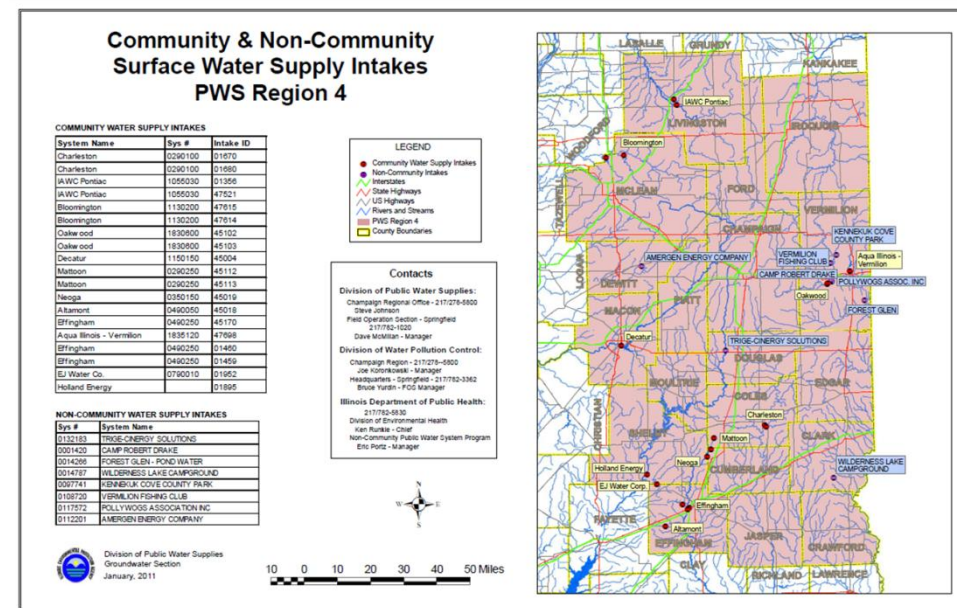
- \* **Fox and the Kankakee River** levels spiked up during the rain on August 4<sup>th</sup> then leveled off. The flow is more than enough at both rivers.
- \* **Lake Michigan** is not changing that much only down a foot from last year.





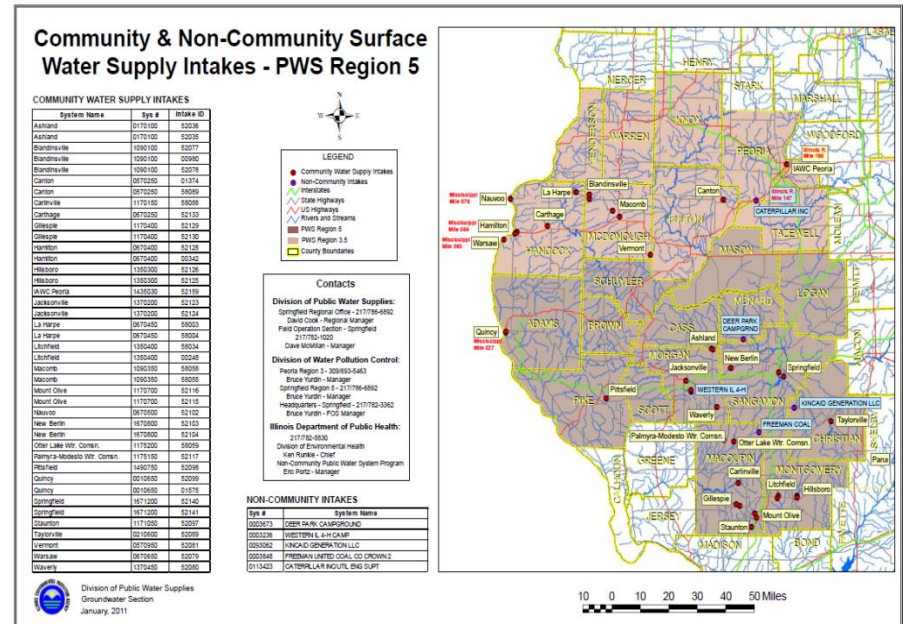
# Illinois EPA - Region 4

- \* Champaign indicated that **Gibson City** has started voluntary water restrictions. The regional office is continuing to spot check groundwater systems
- \* **Decatur** implemented a phase 2 water restriction



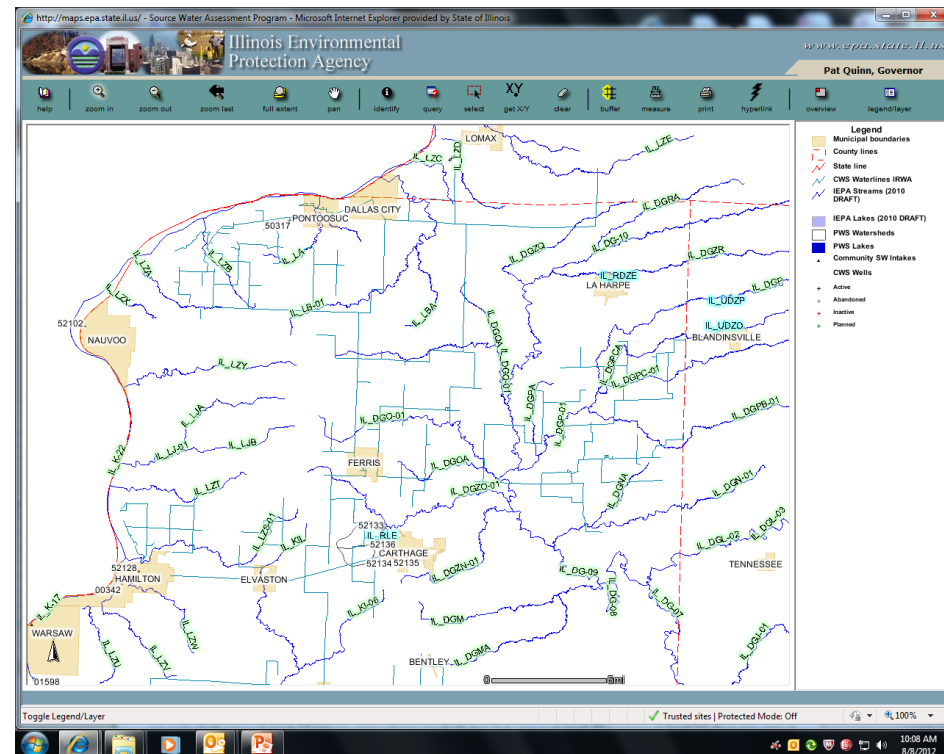
# Illinois EPA Region 5 or 3.5

- \* **Springfield** adopted mandatory water restrictions
- \* **Taylorville** got some of the heavy rain that passed through this past week and their lake is full and going over the dam. They have a large drainage basin and fills easily
- \* **Nokomis** has also issued a mandatory water use restriction.



# Illinois EPA Region 5 or 3.5 cont

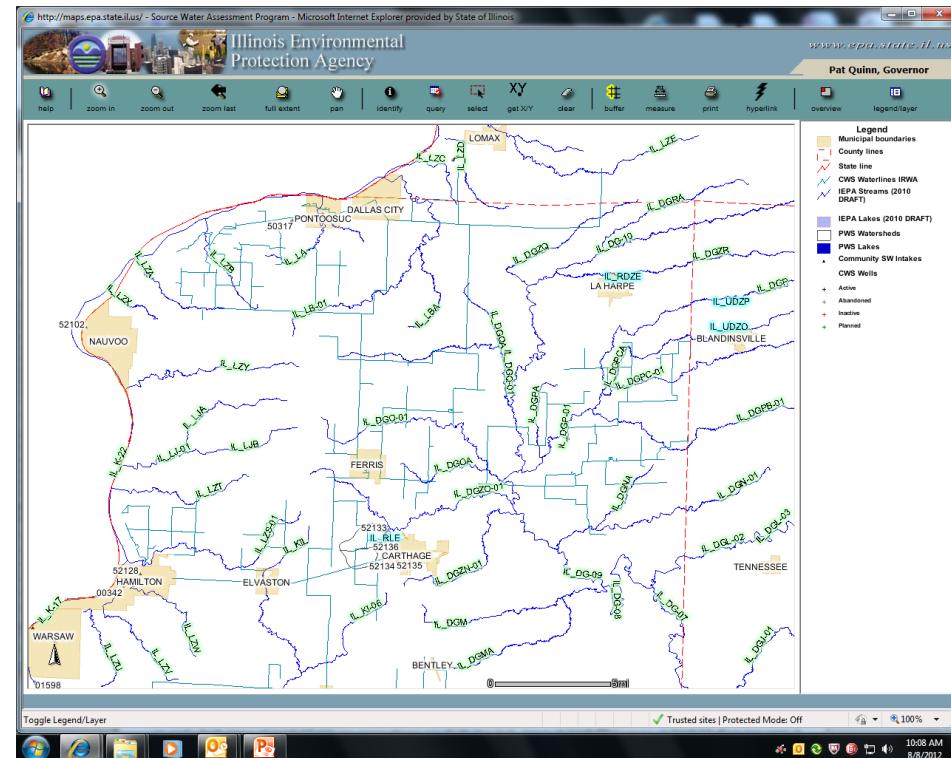
- \* Blandinsville (McDonough Co.)
- \* Carthage (Hancock Co.)
- \* LaHarpe (Hancock Co.)





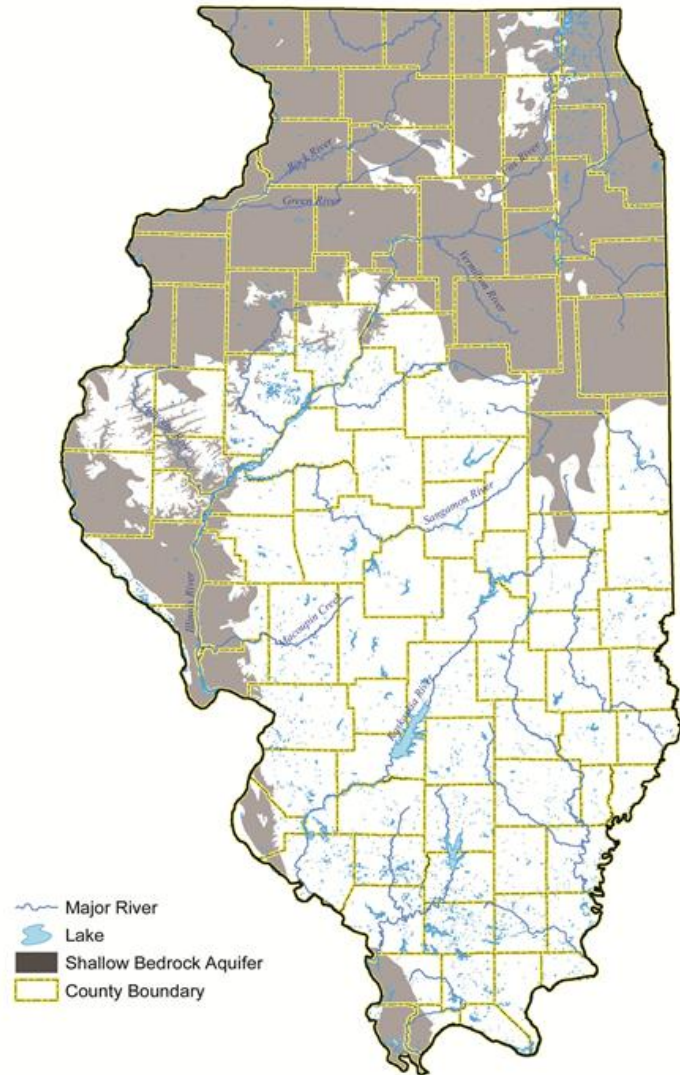
# Illinois EPA Region 5 or 3.5 cont.

- \* Carthage
- \* LaHarp



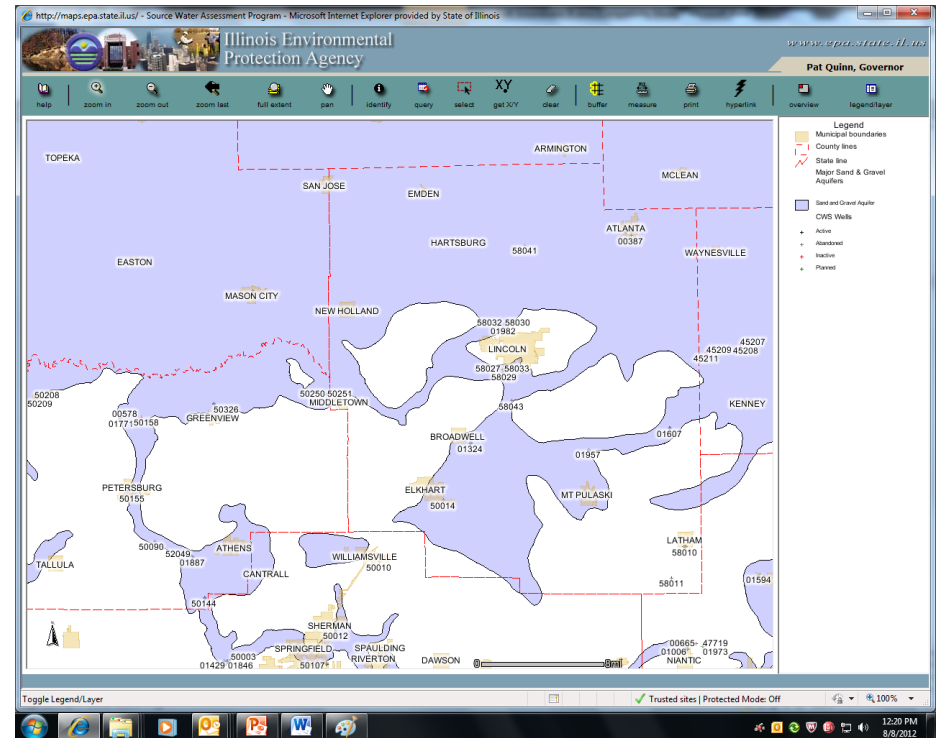
## Principal Shallow Bedrock Aquifers in Illinois

## Principal Sand and Gravel Aquifers in Illinois



# Illinois EPA Region 5 or 3.5 cont

- \* Groundwater systems with bulk water prohibitions
  - \* Mt. Pulaski
  - \* Elkhart
  - \* Broadwell







Illinois Environmental  
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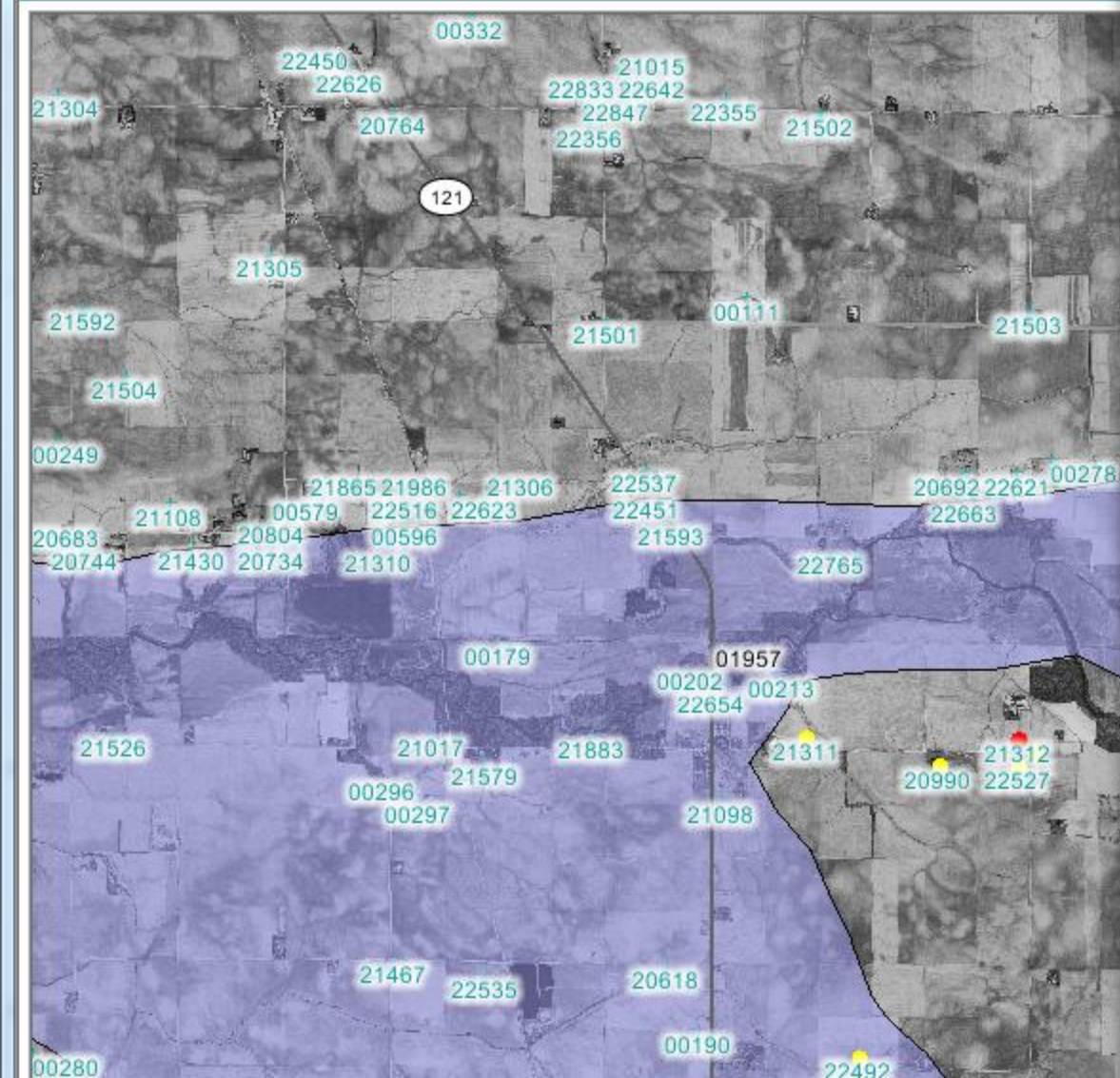






# Illinois Environmental Protection Agency

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IEPA Report



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County_No	Formation	T
121072131200	top soil	
121072131200	yellow clay	
121072131200	sandy clay	
121072131200	yellow clay	
121072131200	blue clay	
121072131200	gravel	
121072131200	drift	
121072131200	gravel	
121072131200	drift	

ISGS Pump Test Data Table

County_No	Pump gpm	Pump hrs	Stat le
121072131200	0	0	

ISGS Well Casing Data Table

County_No	Case diam	Case from
121072131200	6	-1
121072131200	36	11

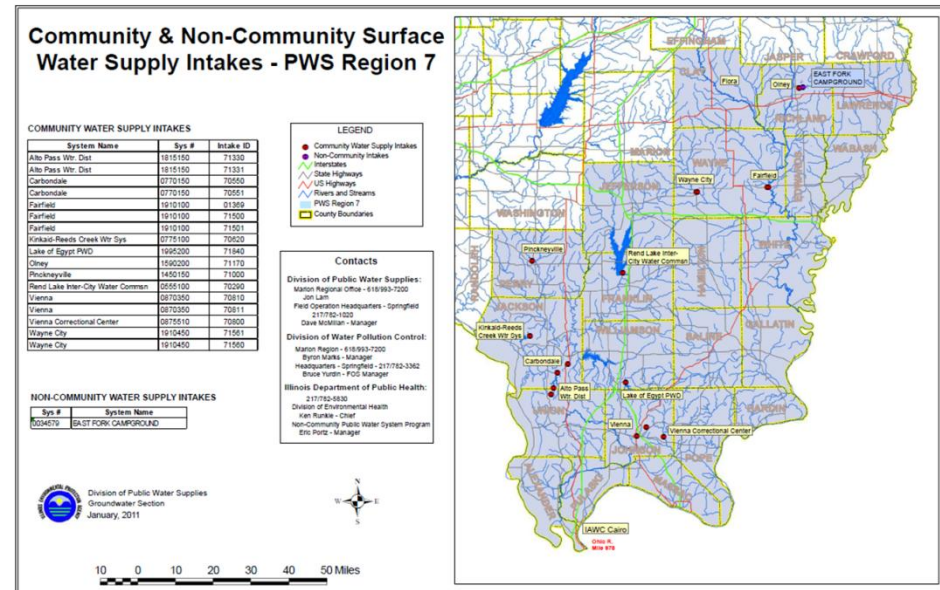


- \* No significant issues at this time



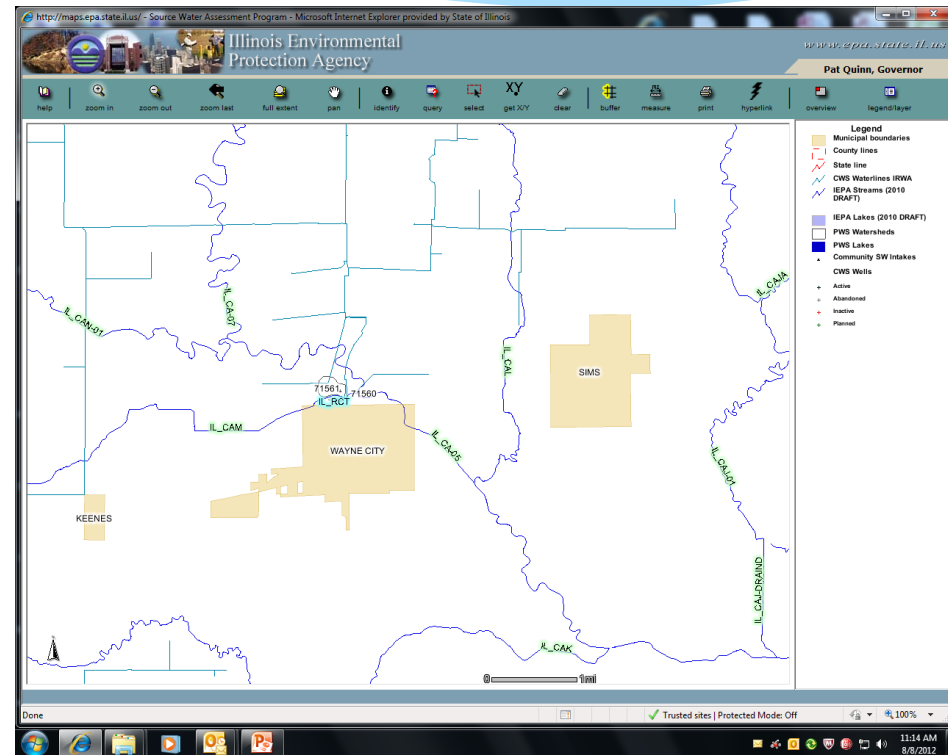
# Illinois EPA Region 7

- \* **Fairfield** is maintaining a full side channel reservoir and the river is low but flowing. They have been able to continuously pump from the river when needed to maintain the side channel reservoir. According to our records the net usable capacity of the side channel is 82.71 MG.
- \* With their average daily usage in June (1.064 MGD) they have about 77 days of storage in it if the river runs dry.
- \* At the present time the river is fluctuating in a usable range.
- \* The Mayor is considering options for conservation measures being established in Fairfield in preparation for possible issues down the road.



# Illinois EPA Region 7 cont.

- \* **Wayne City** is also maintaining their side channel reservoir full. Water is flowing just enough to keep the dammed up area in the Skillet Fork River full and they can continue to pump from it to maintain the side channel full. It should be noted that a dam level in the river there is reportedly 6 ft of water above their intake. At a previous time they deepened the area around the intake and to where there was 6 ft of water below the intake also. However there is reportedly a minimum of 30 day supply of water in their side channel. Their bottom intake is 13 ft off the bottom of the side channel so a few days might be able to be obtained if necessary under emergency conditions.
- \* **An interconnect is available with the Western Wayne WD** that potentially could back feed to the Wayne City clear well so this system should not have any issues.



# Illinois EPA Region 7 cont

- \* **Fairfield** is maintaining a full side channel reservoir and the river is low but flowing. They have been able to continuously pump from the river when needed to maintain the side channel reservoir. According to our records the net usable capacity of the side channel is 82.71 MG. With their average daily usage in June (1.064 MGD) they have about 77 days of storage in it if the river runs dry. At the present time the river is fluctuating in a usable range. In the phone conversation with the operator this week he said the Mayor is considering options for conservation measures being established in Fairfield in preparation for possible issues down the road.

